

CLAIMS

What is claimed is:

- 1 1. A method of processing a web page comprising:  
2 receiving a web page, wherein the web page includes a plurality of data  
3 elements and wherein each one of the plurality of data elements is at least one of a  
4 plurality of known data types;  
5 classifying each one of the plurality of data elements ;  
6 determining a plurality of related operations for each one of the plurality of  
7 classified data elements ; and  
8 outputting the plurality of related operations.
- 1 2. The method of claim 1, wherein outputting the plurality of related operations  
2 includes promoting at least one of the plurality of related operations.
- 1 3. The method of claim 2, wherein promoting at least one of the plurality of  
2 related operations comprises:  
3 selecting one of the pluralities of related operations;  
4 displaying the selected one of the plurality of related operations in a first  
5 mode; and  
6 displaying the unselected ones of the plurality of related operations in a  
7 second mode.

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1 4. The method of claim 2, wherein promoting at least one of the plurality of  
2 related operations comprises:  
3 selecting at least one of the pluralities of related operations wherein the  
4 selection is determined by a preference.

1 5. The method of claim 4, wherein the preference comprises a user profile.

1 6. The method of claim 4, wherein the preference comprises a service provider  
2 preference.

1 7. The method of claim 4, wherein the preference comprises a financial  
2 incentive.

1 8. The method of claim 1, further comprising:  
2 extracting data from each one of the plurality of classified data elements ;  
3 receiving a selection of one of the plurality of related operations;  
4 outputting the extracted data corresponding to the selected one of the  
5 plurality of related operations; and  
6 processing the extracted data in the selected one of the plurality of related  
7 operations.

1 9. The method of claim 1, wherein the method is executed on a user terminal.

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1 10. The method of claim 1, wherein the method is executed on a server.

1 11. The method of claim 1, wherein the method is executed on a server and a  
2 user terminal.

1 12. A method of processing a web page comprising:  
2 receiving a web page in a server, wherein the web page includes a plurality  
3 of data elements and where in each one of the plurality of data  
4 elements is at least one of a plurality of known data types; data  
5 elements ;  
6 classifying each one of the plurality of data elements ;  
7 determining a plurality of related operations for each one of the plurality of  
8 classified data elements ;  
9 outputting a plurality of related operations through a wireless data link to a  
10 wireless user terminal;  
11 extracting data from each one of the plurality of classified data elements ;  
12 receiving a selection of one of the plurality of related operations;  
13 outputting the extracted data corresponding to the selected one of the  
14 plurality of related operations; and  
15 processing the extracted data in the selected one of the plurality of related  
16 operations.

1 13. A system for processing a web page comprising:

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2 a processor;  
3 a storage facility coupled to the processor and containing instructions  
4 executable by the processor which configure the processing system to  
5 receive a web page, wherein the web page includes a plurality of data  
6 elements and where in each one of the plurality of data  
7 elements is at least one of a plurality of known data types;  
8 classify each one of the pluralities of data elements;  
9 determine a plurality of related operations for each one of the  
10 plurality of classified data elements ; and  
11 output the plurality of related operations.

1 14. The system of claim 13, further comprising a user terminal coupled to the  
2 processor and wherein the instructions executable by the processor further configure  
3 the processing system to determine a plurality of related operations for each one of  
4 the plurality of classified data elements and output the plurality of related operations  
5 to a user terminal.

1 15. The system of claim 14, wherein the processor is coupled to the user terminal  
2 via a network.

1 16. The system of claim 15, wherein the network includes at least one of a group  
2 consisting of a wireless application protocol (WAP), an Internet, an intranet, a local  
3 area network (LAN) and a wide area network (WAN).

1 17. The system of claim 15, wherein the user terminal includes at least one of a  
2 group consisting of a personal digital assistant (PDA), a telephone, a cellular  
3 telephone, a two-way pager, a computer, a website, and a server.

1 18. A machine-readable program storage medium tangibly embodying a  
2 sequence of instructions executable by a machine to perform a method comprising:  
3 receive a web page, wherein the web page includes a plurality of data  
4 elements and wherein each one of the plurality of data elements is at  
5 least one of a plurality of known data types;  
6 classify each one of the plurality of data elements ; and  
7 determine a plurality of related operations for each one of the plurality of  
8 classified data elements .

1 19. The machine-readable program storage medium of claim 18, further  
2 comprising:  
3 outputting a plurality of related operations.

1 20. The machine-readable program storage medium of claim 19, wherein  
2 outputting the plurality of related operations includes promoting at least one of the  
3 plurality of related operations.

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1 21. The machine-readable program storage medium of claim 20, wherein  
2 promoting at least one of the plurality of related operations comprises:  
3 selecting one of the pluralities of related operations;  
4 displaying the selected one of the plurality of related operations in a first  
5 mode; and  
6 displaying the unselected ones of the plurality of related operations in a  
7 second mode.

1 22. The machine-readable program storage medium of claim 20, wherein  
2 promoting at least one of the plurality of related operations comprises:  
3 selecting at least one of the pluralities of related operations wherein the  
4 selection is determined by a preference.

1 23. The machine-readable program storage medium of claim 22, wherein the  
2 preference comprises a user profile.

1 24. The machine-readable program storage medium of claim 22, wherein the  
2 preference comprises a service provider preference.

1 25. The machine-readable program storage medium of claim 22, wherein the  
2 preference comprises a financial incentive.

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1 26. The machine-readable program storage medium of claim 19, further  
2 comprising:  
3 extracting data from each one of the plurality of classified data elements ;  
4 receiving a selection of one of the plurality of related operations;  
5 outputting the extracted data corresponding to the selected one of the  
6 plurality of related operations; and  
7 processing the extracted data in the selected one of the plurality of related  
8 operations.

1 27. The machine-readable program storage medium of claim 18, wherein the  
2 method is executed on a user terminal.

1 28. The machine-readable program storage medium of claim 18, wherein the  
2 method is executed on a server.

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1 29. The machine-readable program storage medium of claim 18, wherein the  
2 method s executed on a server and a user terminal.

1 30. An apparatus for processing a web page comprising:  
2 means for receiving a web page, wherein the web page includes a plurality of  
3 data elements and wherein each one of the plurality of data elements  
4 is at least one of a plurality of known data types;  
5 means for classifying each one of the plurality of data elements ;  
6 means for determining a plurality of related operations for each one of the  
7 plurality of classified data elements ; and  
8 means for outputting the plurality of related operations.

1 31. The apparatus of claim 30, wherein the means for outputting the plurality of  
2 related operations includes means for promoting at least one of the plurality of  
3 related operations.

1 32. The apparatus of claim 31, wherein the means for promoting at least one of  
2 the plurality of related operations comprises:  
3 means for selecting one of the pluralities of related operations;  
4 means for displaying the selected one of the plurality of related operations in  
5 a first mode; and  
6 means for displaying the unselected ones of the plurality of related  
7 operations in a second mode.

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1 33. The apparatus of claim 2, wherein the means for promoting at least one of the  
2 plurality of related operations comprises:

3 means for selecting at least one of the pluralities of related operations  
4 wherein the selection is determined by a preference.

1 34. The apparatus of claim 33, wherein the preference comprises a user profile.

1 35. The apparatus of claim 33, wherein the preference comprises a service  
2 provider preference.

1 36. The apparatus of claim 33, wherein the preference comprises a financial  
2 incentive.

1 37. The apparatus of claim 30, further comprising:  
2 means for extracting data from each one of the plurality of classified data  
3 elements ;  
4 means for receiving a selection of one of the plurality of related operations;  
5 means for outputting the extracted data corresponding to the selected one of  
6 the plurality of related operations; and  
7 means for processing the extracted data in the selected one of the plurality of  
8 related operations.